## What is claimed:

1. A method for identifying a compound capable of modulating polycystin-1 activity, comprising:

- (a) contacting a test compound to a recombinantly engineered cell expressing a polycystin-1 protein, or a variant thereof, resulting in expression of a mutant cell phenotype;
- (b) measuring the expression of the mutant phenotype; and
- obtained in (b) to the level of expression of the mutant phenotype obtained in (b) to the level of expression of a mutant phenotype obtained in the presence of a vehicle control: such that if the level obtained in (b) differs from that obtained in the presence of a vehicle control, a compound capable of modulating polycystin-1 activity has been identified.
- 2. The method of Claim 1 wherein the mutant phenotype is an increase in cell adherence to type I collagen coated substrates.
- 3. The method of Claim 1 wherein the mutant phenotype is an increase in apical expression of NaK-ATPase on the cell membrane.
- 4. The method of Claim 1 wherein the mutant phenotype is increased expression of β-2-NaK-ATPase within the cell.

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- 5. The method of Claim 4 wherein the expression of β-2-NaK-ATPase within the cell is measured using an anti-β-2-NaK-ATPase antibody.
- 6. The method of Claim 1 wherein the mutant phenotype is decreased incorporation of focal adhesion kinase into focal adhesion complexes.
- 7. The method of Claim 6 wherein the incorporation of focal adhesion kinase into focal adhesion complexes is measured using an anti-focal adhesion kinase antibody.
  - 8. The method of Claim 1 wherein the recombinantly engineered cell further comprises an epitope tagged polycystin-1 interacting protein.
- 10 9. The method of Claim 1 wherein the recombinantly engineered cell further comprises an epitope tagged focal adhesion kinase protein.
  - 10. The method of Claim 1 wherein the polycystin-1 protein, or varient thereof, is epitope tagged.
  - 11. A method for identifying a compound capable of modulating polycystin-2 activity, comprising:

cell expressing a polyscystin-2 protein, or varient thereof, resulting in expression of a mutant cell phenotype;

(b) measuring the expression of the mutant phenotype; and

(c) comparing the level of expression of mutant phenotype

(a)

obtained in (b) to the level of expression of a mutant phenotype obtained in the presence of a vehicle control: such that if the level obtained in (b) differs from that obtained in the presence of a vehicle control, a compound capable of modulating polycystin-2 activity has been identified.

contacting a test compound to a recombinantly engineered

- 12. The method of Claim 11 wherein the mutant phenotype is an increase in cell adherence to type I collagen coated substrates.
- 13. The method of Claim 12 wherein the mutant phenotype is an increase in apical expression of NaK-ATPase on the cell membrane.
- 14. The method of Claim 13 wherein the mutant phenotype is increased expression of  $\beta$ -2-NaK-ATPase within the cell.
- 15. The method of Claim 14 wherein the expression of β-2-NaK-ATPase within the cell is measured using an anti-β-2-NaK-ATPase antibody.

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- 16. The method of Claim 11 wherein the mutant phenotype is decreased incorporation of focal adhesion kinase into focal adhesion complexes.
- 17. The method of Claim 16 wherein the incorporation of focal adhesion kinase into focal adhesion complexes is measured using an anti-focal adhesion kinase antibody.
- 18. The method of Claim 11 wherein the recombinantly engineered cell further comprises an epitope tagged polycystin-2 interacting protein.
- 19. The method of Claim 11 wherein the recombinantly engineered cell further comprises an epitope tagged focal adhesion kinase protein.
- 20. The method of Claim 11 wherein the polycystin-2 protein, or varient thereof, is epitope tagged.

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